

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P. BO. 1450 AExandra, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,103	04/21/2005	Kunio Atago	NIWA	3931
75	590 07/07/2006		EXAM	INER
James C Wray	/	PHAN, RAYMOND NGAN		
Suite 300			ADTIBUT	PAPER NUMBER
1493 Chain Bri	dge Road	ART UNIT	FAFER NUMBER	
McLean, VA	22101	2111		
			DATE MAILED: 07/07/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of two may be available under the providence of 3° CFR 1.136(a). In no event, however, may a reply be limedly filled. If NO pends for regly is specified above, the maintaine stabilitory pends vell apply and will expire SIX (8) MONTHS from the maining date of this communication. Fallius to the potential of the communication of the maintaine stabilitory pends vell apply and will expire SIX (8) MONTHS from the maining date of this communication. Fallius to the obscine Asharology will be state to the state maintaine stabilitory pends vell apply and will expire SIX (8) MONTHS from the maining date of this communication. Fallius to the obscine Asharology will be set of the maintaine stabilitory pends vell apply and the specification to expert the maining date of this communication, even if (innelly fised, may reduce any sented plants that maintained the set of the communication of the sentence of the set of the communication is final to the communication of the sentence any sentence and sentence			Application No.	Applicant(s)			
Raymond Phan 2111			10/532,103	ATAGO, KUNIO			
Price MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Betandance for me may be available under the provides of 37 CF1.13(a). In ne event, however, may a reply the sheet for the first of the communication of the state of the communication. In the state of the communication of the state of the communication of the state of the communication of the state of the communication. Fallules to may write the state that the real mains date of this communication, even if smelly filed, may reduce any centre of patient una adjustment. See 37 CF18.13(a)(b) MONTHS from the railing date of this communication, even if smelly filed, may reduce any centre of patient una adjustment. See 37 CF18.13(a)(b) MONTHS from the railing date of this communication, even if smelly filed, may reduce any centre of patient una adjustment. See 37 CF18.13(a)(b) MONTHS from the railing date of this communication, even if smelly filed, may reduce any centre of patient una adjustment. See 37 CF18.13(a)(b) MONTHS from the railing date of this communication, even if smelly filed, may reduce any centre of patient una adjustment. See 37 CF18.13(a)(a) 1) © Responsive to communication(s) filed on 21 April 2005. 2a) ☐ This action is FiNAL. 2b) ☑ This action is FiNAL. 2b) ☑ This action is FiNAL. 2b) ☑ This action is formal matters, prosecution as to the merits is closed in accordance with the practice under £x parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ② Claim(s) 14 is/are pending in the application. 4a) ② It is/are allowed. 5b) ☐ Claim(s) 15 is/are allowed. 6b) ☑ Claim(s) 15 is/are allowed. 6c) ☐ Claim(s) 15 is/are allowed. 6c) ☐ Claim(s) 15 is/are objected to. 8c) ☐ The specification is objected to by the Examiner. 9c) ☐ The crawing(s) filed on 15 is/are objected to the drawing(s) be held in abeyance.	Office Action Sur	nmary	Examiner	Art Unit			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extractions of time may be available under the provisions of 37 CFR 1.136(a). In one week, thowever, may a riphy be limited filled. Extractions of time may be availabled under the provisions of 37 CFR 1.136(a). In one week, thowever, may a riphy be limited filled. Extractions of time may be availabled under the provisions of 37 CFR 1.136(a). In one week, thowever, may a riphy be limited filled. Extractions of the many be availabled under the provisions of 37 CFR 1.136(a). In one week, thouse, and the single date of this communication. Failure to reply within the set or extended provision and the the maining date of this communication, even if illned, filled, may reduce any example plants turn adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filled on 21 April 2005. 2a) This action is FINAL. 2b) This action is non-fillnal. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) **Lei Islane pending in the application. 4a) Of the above claim(s) **Lei Islane pending in the application. 4a) Of the above claim(s) **Lei Islane pending in the application. 4a) Claim(s) **Lei Islane rejected. 7) The drawing(s) filed on **Islane rejected. 8) Claim(s) **Lei Islane rejected. 10) The drawing(s) filed on **Islane rejected. Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). Priority under 35 U.S.C. § 119 12) Acknowledg			Raymond Phan	2111			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of two may be available under the providence of 3° CFR 1.136(a). In no event, however, may a reply be limedly filled. If NO pends for regly is specified above, the maintaine stabilitory pends vell apply and will expire SIX (8) MONTHS from the maining date of this communication. Fallius to the potential of the communication of the maintaine stabilitory pends vell apply and will expire SIX (8) MONTHS from the maining date of this communication. Fallius to the obscine Asharology will be state to the state maintaine stabilitory pends vell apply and will expire SIX (8) MONTHS from the maining date of this communication. Fallius to the obscine Asharology will be set of the maintaine stabilitory pends vell apply and the specification to expert the maining date of this communication, even if (innelly fised, may reduce any sented plants that maintained the set of the communication of the sentence of the set of the communication is final to the communication of the sentence any sentence and sentence							
1)⊠ Responsive to communication(s) filed on 21 April 2005. 2a)□ This action is FINAL. 2b)☑ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)☑ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)☑ Claim(s) 1-4 is/are rejected. 7)□ Claim(s) is/are objected to . 8)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any						
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.	Status						
4)	2a) ☐ This action is FINAL . 2b) ☑ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Tentsperson's Patent Drawing Review (PTO-948)	Disposition of Claims						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4a) Of the above claim(s) 5) Claim(s) is/are allo 6) Claim(s) <u>1-4</u> is/are rejecto 7) Claim(s) is/are obj	is/are withdravowed. ed. ected to.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Attachment(s) Paper No(s)/Mail Date	Application Papers						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 1 Interview Summary (PTO-413) Paper No(s)/Mail Date	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Attachment(s) Paper No(s)/Mail Date	Priority under 35 U.S.C. § 119						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.	 a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 04212005. 5) Notice of Informal Patent Application (PTO-152) 6) Other:	1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Draw	ing Review (PTO-948)	Paper No(s)/Mail [5) Notice of Informal	Date			

Page 2

Application/Control Number: 10/532,103

Art Unit: 2111

Part III DETAILED ACTION

Notice to Applicant(s)

- 1. This application has been examined. Claims 1-4 are pending.
- 2. The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 2111.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicants Admitted Prior Arts (hereinafter AAPA) in view of Abbondanzio et al. (US No. 6,931,568).

In regard to claims 1, 4, AAPA disclose a control system comprising: a system controller (i.e. first CPU board) comprising a bus arbiter 12 and a non-volatile memory 16 (see figure 5, para 8); a bus employing a center arbitration method, from which devices can be detached and to which the detached devices can be attached again as power being supplied (see figure 5, paras 5-8); and a plurality of CPU boards which execute the same processes synchronously (see figure 5, para 5-8). But AAPA do not disclose having only periodically executed

Application/Control Number: 10/532,103 Page 3

Art Unit: 2111

functions and passive functions; wherein: said system controller control the system to continue processes only by periodically executed functions and passive functions of a hardware structure of the system such that when one of said CPU boards on said bus is down while accessing to said non-volatile memory, said system controller assigns the right to use said bus to other CPU board according to a requirement from said other CPU board; and even if one of the CPU board is down, the system is restored by detaching said down CPU board from said bus and attaching said detached CPU board to said bus again as power for the whole system being supplied. However Abbondanzio et al. disclose management module 120 having only periodically executed functions and passive functions (see col9, line 57 through col. 10, line 48); wherein: said system controller control the system to continue processes only by periodically executed functions and passive functions of a hardware structure of the system such that when one of said CPU boards on said bus is down while accessing to said non-volatile memory, said system controller assigns the right to use said bus to other CPU board according to a requirement from said other CPU board (see figure 6, col. 9, line 57 through col. 10, line 47); and even if one of the CPU board is down, the system is restored by detaching said down CPU board from said bus and attaching said detached CPU board to said bus again as power for the whole system being supplied (see figure 6, col. 10, lines 3-47). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Abbondanzio et al. within the system of AAPA because it would enable the redundant processors and solution not substantially increase the cost and complexity of the system.

Application/Control Number: 10/532,103

Art Unit: 2111

In regard to claim 2, Abbondanzio et al. disclose a duplex power source system having a plurality of power sources, wherein: even if one of the CPU boards or power sources is down, the system is restored by detaching said down CPU board or said down power source from said bus and attaching said detached CPU board or said detached power source to said bus again as power for the whole system being supplied (see col. 4, lines 49-65). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Abbondanzio et al. within the system of AAPA because it would enable the redundant processors and solution not substantially increase the cost and complexity of the system.

In regard to claim 3, Abbondanzio et al. disclose a duplex IO board system having a plurality of IO boards, wherein: said system controller control the system to continue processes only by periodically executed functions and passive functions of the hardware structure of the system such that when one of said CPU boards or one of said IO boards on said bus is down while accessing to said non-volatile memory, said system controller assigns the right to use said bus to other CPU board or other IO board of said duplex IO board system according to a requirement from said other CPU board or said other IO board; and even if either one of the CPU boards, the IO boards or the power sources is down, the system is restored by detaching said down CPU board, down IO board or down power source from said bus and attaching said detached device to said bus again as power for the whole system being supplied (see figure 3, col. 5, line 64 through col. 6, line 52). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Abbondanzio

Application/Control Number: 10/532,103

Art Unit: 2111

et al. within the system of AAPA because it would enable the redundant processors and solution not substantially increase the cost and complexity of the system.

Conclusion

- 6. All claims are rejected.
- 7. The prior arts made of record and not relied upon are considered pertinent to applicant's disclosure.

Cepulis et al. (US No. 6,463,550) disclose a computer system implementing fault detection and isolation using unique ID code stored in non-volatile memory.

Abbondanzio et al. (US No. 6,883,125) disclose a logging insertion/removal of server blades in a data processing system.

Franke et al. (US No. 6,976,112) disclose an apparatus, method and program product for automatically distributing power to modules inserted in live chassis.

Shinohara et al. (US No. 6,321,284) disclose a multiprocessor system with multiple memory buses for access to shared memories.

Bottom (US No. 6,950,895) discloses a modular server architecture.

Yang et al. (US Pub No. 2004/0024831) disclose a blade server management system.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Raymond Phan, whose telephone number is (571) 272-3630. The examiner can normally be reached on Monday-Friday from 6:30AM- 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632 or via e-mail addressed to mark.rinehart@uspto.gov. The fax phone number for this Group is (571) 273-8300.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [raymond.phan@uspto.gov].

Application/Control Number: 10/532,103

Art Unit: 2111

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see hop://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 central telephone number is (571) 272-2100.

(P)

MARK H. RINEHART
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Raymond Phan June 23, 2006